

CLAIMS

1. An aircraft rotor which is arranged to rotate around a substantially vertical axis and which comprises at least two blades, wherein the blades when rotating form a conical surface, whereby to provide ascending force, the ascending force coefficients of the blades can be adjusted to be positive and to provide propulsive force, the ascending force coefficients of the blades on the forward side and on the rear side can be adjusted to have opposite signs.

2. A rotor as claimed in claim 1, wherein the ascending force coefficients of the blades can be adjusted as a function of the angle of rotation of the rotor.

3. A rotor as claimed in claim 1, wherein the ascending force coefficients of the blades are arranged to be adjusted by changing the blade angle of the blades.

4. A rotor as claimed in claim 1, wherein the rotor comprises a circular rotor rim to which the blades are arranged.

5. A rotor as claimed in claim 1, wherein the blades curve outward.

6. An aircraft which comprises a body and at least one rotor connected to the body and arranged to rotate around a substantially vertical axis and comprising at least two blades, wherein the blades when rotating form a conical surface, whereby to provide ascending force, the ascending force coefficients of the blades can be adjusted to be positive and to provide propulsive force, the ascending force coefficients of the blades on the forward side and on the rear side can be adjusted to have opposite signs.

7. An aircraft as claimed in claim 6, wherein the ascending force coefficients of the blades can be adjusted as a function of the angle of rotation of the rotor.

8. An aircraft as claimed in claim 6, wherein the ascending force coefficients of the blades are arranged to be adjusted by changing the blade angle of the blades.

9. An aircraft as claimed in claim 6, wherein the aircraft has a rotating circular rotor rim to which the blades are arranged.

10. An aircraft as claimed in claim 6, wherein the aircraft has at least two rotors.

11. An aircraft as claimed in claim 10, wherein the blades of at least one rotor form, when rotating, a conical surface and the blades of at least one rotor rotate substantially horizontally.

5 12. An aircraft as claimed in claim 10, wherein the aircraft has at least two rotors arranged on top of each other, whose blades form a conical surface when rotating.

10 13. An aircraft as claimed in claim 12, wherein the aircraft has at least two rotors arranged on top of each other and rotating in opposite directions, the blades of the rotors forming conical surfaces in such a manner that the cone tips of the conical surfaces point downward.

14. An aircraft as claimed in claim 12, wherein the aircraft has at least two rotors arranged on top of each other and rotating in opposite directions, the blades of the rotors forming conical surfaces in such a manner that the cone bottoms of the conical surfaces face each other.

15 15. An aircraft as claimed in claim 12, wherein the aircraft has at least two rotors arranged on top of each other and rotating in opposite directions, the blades of the rotors forming conical surfaces in such a manner that the cone tips of the conical surfaces face each other.

20 16. An aircraft as claimed in claim 15, wherein the lower rotor is arranged to form a landing pedestal.

17. An aircraft as claimed in any one of claims 10, wherein the tips of the blades of different rotors are connected.

18. An aircraft as claimed in claim 17, wherein an apparatus generating propulsive force is arranged at the tips of the blades.

25 19. An aircraft as claimed in claim 6, wherein the aircraft has at least one rotating rotor rim, to which the blades are arranged and which rotor rim is arranged at the widest point of the body.

30 20. An aircraft as claimed in claim 6, wherein the blades are made of an elastic material in such a manner that when the blade angles are adjusted, the blades can twist.

35 21. An aircraft as claimed in claim 6, wherein the blades of at least one rotor are formed in such a manner that the forward parts of the blades are arranged obliquely with respect to the horizontal plane and the rear parts of the blades are arranged to be substantially horizontal, and that the blade angle of the blades is adjusted by turning the blades around a substantially vertical shaft.

22. An aircraft as claimed in claim 6, wherein the ends of the blades belonging to the same rotor are connected.

23. An aircraft as claimed in claim 6, wherein the aircraft has an electric motor for rotating the rotor and electric motors for adjusting the blade angles of the blades.

24. An aircraft as claimed in claim 6, wherein at least a part of the surfaces of the aircraft is made up of solar cells.

25. An aircraft as claimed in claim 6, wherein the aircraft can be arranged to function as a wind generator.

26. An aircraft as claimed in claim 6, wherein batteries and/or fuel cells are use as the energy source and energy storage of the aircraft.

27. An aircraft as claimed in claim 6, wherein the aircraft can be arranged to be a dwelling and/or water vehicle.

28. An aircraft as claimed in claim 6, wherein the blades curve outward.